Mattress Recycling Incentive Informational Webinar

Tuesday, January 14, 2020

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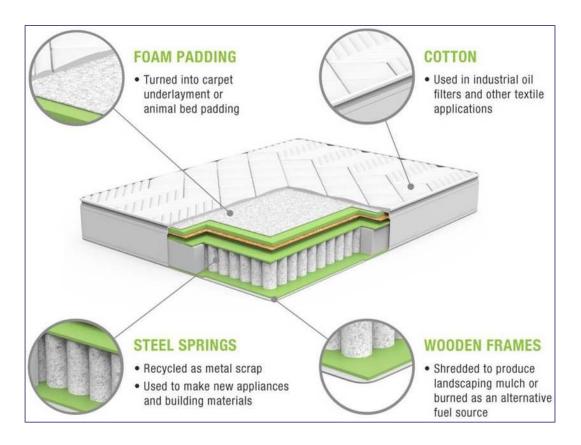


Agenda

- Program Overview
- Results, Tips from Grantees, & Lessons Learned
 - Framingham
 - Dennis
 - Greenfield (Regional Program)
 - Cambridge (Curbside Program)
- Important Documents / Forms
- Q & A

MRI Overview

 Promote source separation of residential mattresses and box springs for recycling and reuse

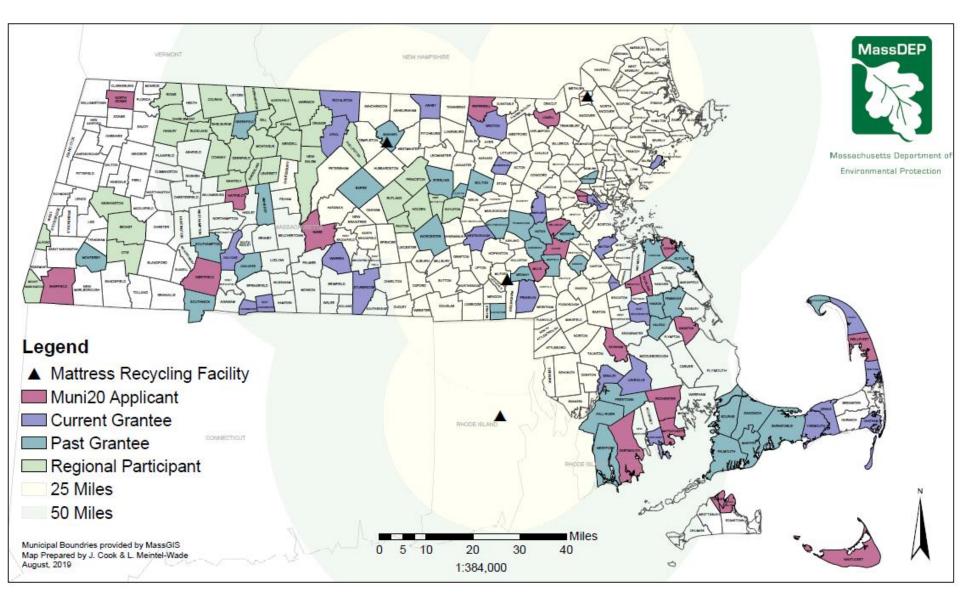


Infographic courtesy of the Mattress Recycling Council (MRC)

MRI Overview

- CY16 = 33 grantees
- CY17 = 3 grantees
- CY18 = 7 grantees
- CY19 = 19 grantees
- CY20 = 22 awards*
- Grantees are matched with a recycling vendor MassDEP assigns them based on location and cost
- Grant provides (individual awards may vary):
 - Recycling services
 - Transportation services
 - Reimbursement for a collection container (up to \$7,500)

MRI Overview



Recycling Vendors

- Ace Mattress Recycling West Warwick, RI <u>https://acemattressrecycling.com</u>
- Green Mattress Milford, MA www.greenmattressco.com
- Raw Material Recovery Gardner, MA www.rawmatrec.com
- United Teen Equality Center Lawrence, MA https://utec-mattress.org

Grant Process

- Complete and submit checklist February 1st
- 2. Receive grant agreement for signature
- 3. Return signed grant agreement by mail March 1st
- Receive approval from MassDEP to start your program June 1st
- 5. Purchase container, label/signage, and request reimbursement **June 30**th
- 6. Begin collecting

Acceptable Mattresses

- Mattresses and box springs from residents only
- Twin, double, queen, king, and California king
- Traditional mattresses constructed out of metal, textiles, wood, and foam
- Full foam mattresses
- Crib mattresses
- Discolored or worn mattresses that are not wet





Unacceptable Mattresses

- Torn, punctured, soiled, or moldy items
- Twisted or crushed
- Wet or frozen pieces
- Infested with bed bugs, mice

- Futons and fold-out sofa beds
- Mattress pads and toppers
- Infant sleeping pads
- Air or water beds
- Other furniture or textiles





Bed Bugs

- Small, flat, oval shaped insects about the size of an apple seed (1/4")
- Very infrequent
- Inspect mattresses by looking along edges and corners for clusters or smeared black spots
- Bed bugs do not transmit any diseases







Loading Containers

- Stacking efficiency is key!
- General rule of thumb is 1 mattress per cubic yard capacity (based on queen size)
 - 20-foot sea container (40-yard roll-off) = 40-50+
 - 40-foot sea container = 60-100+
 - 48-foot trailer = 110-180+
 - 53-foot trailer = 125-190+
- Municipal staff must rearrange or restack mattresses as necessary in order to maximize space

Loading Containers

- Municipal employees should load or actively direct residents
- Do not stack or store mattresses outside of the container
- Track the number of units collected on the bill of lading (BOL)
- Collect payments, if applicable





Hauling Procedures

- Schedule a pick-up when the container is almost full
 - 2 days notice
 - Pick a time when an employee will be available to communicate with the hauler
- Complete a BOL; keep 1 copy for your records and give 1 to the driver

BILL OF LADING Sustainable Materials Recovery Program: Mattress Recycling Incentive Grant Program Municipality to Complete this Section - Keep a copy for your records and send the original along with the mattress shipment. The Receipt Information will be provided by the recycler. Municipality: Haul Date: Number of Mattress and Box Spring Units in Load: Collection Container Type (check one): 40 vd. roll-off 20 ft. sea container 40 ft. sea container 48 ft. trailer 53 ft. trailer other: Collection Site Certified Net Weight (if available): lbs. The information provided here is to the best of my knowledge true, accurate and complete. All of the products described in this document were discarded by residents of my municipality (or other grantees, as assigned by MassDEP) Name (print) Phone Signature Date Recycling Vendor to Complete this Section – Keep a copy of the completed form for your records and submit the original to MassDEP. Each invoice submitted must include a Bill of Lading for each load. Company Name: Units Accepted for Recycling: Units Rejected/Disposed: ; these units were (check one): rejected at the collection site received at the recycling facility Notes/Explanations of Discrepancies: The information provided here is to the best of my knowledge true, accurate and complete. Name (print) Signature SMRP MRI Bill of Lading Updated 1/19/17

Hauling Efficiencies

- Low piece count = cost inefficiency
- Grantee is required to create procedures that support stacking efficiency
- Underperformance may result in removal from program





Outreach

- Municipal Website
- Email Newsletters
- Social Media
- Hard Copy Mailers
- Signs
- Billboards
- Local Newspapers



Recycle Right

Cambridge's curbside recycling continues to be recycled despite challenges in the industry. But, costs have increased. Help us reduce costs by cleaning up contamination in your recycling.

Remember:



No Bagged Items No Garbage



No Tanglers (no hoses, wires, hangers or electronics)



No Plastic Bags, Films or Wrappers



No Clothing or Linens

Mattress Recycling



Beginning April 8, mattresses and box springs will no longer be trashed. The City has partnered with a nonprofit to collect and recycle mattresses at no cost to residents. To schedule your free

collection visit CambridgeMA.Gov/Mattress.



Wondering how to dispose of an item? Download the "Zero Waste Cambridge" app or visit CambridgeMA.Gov/Recycle.

Citywide Composting Turns One!

Thank you for joining in this effort. CambridgeMA.Gov/Compost

Stay updated on your waste services:

Subscribe to Recycling's monthly e-newsletter at CambridgeMA.Gov/Subscribe.

MRI Program Results

- More than 79,750 mattresses have been recycled through the MRI program.
- Approximately 2,193 tons of material diverted from disposal.
- MassDEP has spent more than \$1.54 million in grant funding for this program.

MRI Case Study

City of Framingham

- Curbside collection by appointment only the DPW staff collects the mattresses curbside and consolidates in the collection container (\$5 surcharge).
- Recycled 4,689 mattresses during the MRI program.
- Continues to collect and send mattresses to UTEC, but self-hauls to UTEC instead of paying them for transportation.
- The City charges residents \$20-25 per mattress; they estimate their actual costs at \$18.25 per unit.



MRI Case Study

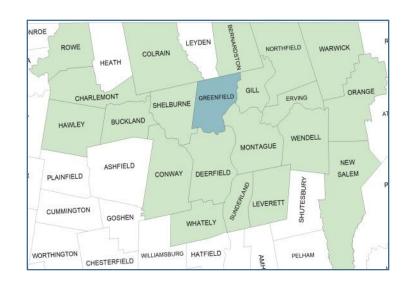
Town of Dennis

- Container purchased from Conexwest 40' x 8' x 9'. The additional height makes it much easier for loading.
- Staff are trained to visually inspect mattresses as they come in to the transfer station. Any that are unacceptable are put in a separate container for disposal.
- Recycled **2,196 mattresses** (so far).



MRI Case Study City of Greenfield - Regional

- Drop-off center in Greenfield; residents of 20 towns in the FCSWMD are allowed to bring mattresses to this site.
- RMR picks up full container and swaps with an empty one.



- Recycled 3,552 mattresses during the MRI program.
- Regional model increases participant access, improves the quality of mattresses being recycled, and is more cost effective.

MRI Case Study City of Cambridge - Curbside

- Residents schedule a pick-up online. UTEC collects mattresses curbside and loads into a box truck.
 - Missed scheduled pick-ups
 - Overages
 - Weather damage???



- Promote on their website: <u>www.cambridgema.gov/Services/MattressRecycling</u>
- Recycled **3,767 mattresses** so far (8 months).

MRI Tips & Lessons Learned

- Combination of drop-off and curbside collection increases participation.
 - If you are allowing curbside pick-up, schedule by appointment-only and charge a higher fee.
 - May have to deal with more mattresses being rejected by vendor due to damage from rain/snow/ice.
- Consider charging fees for mattresses in order to balance costs borne by the municipality.
- Prohibit curbside pick-up of mattresses for disposal in contracts with trash haulers.
- Outreach and education is important!

Important Documents

- Checklist
- Grant Agreement
- Invoice Template (for containers)
- Grantee Guidance Document
- Bill of Lading

FYI -

Solid Waste Advisory Committee Meeting (SWAC)

January 23rd at 1:00 – 3:30 PM in Boston Office

https://register.gotowebinar.com/register/2959417314094135307

1:00 MassDEP Updates

- Solid Waste Master Plan status update
- Waste Ban inspections and enforcement update

1:15 Source Reduction & Reuse Working Group

- Review and prioritize issues for discussion
- Discuss how to obtain broader community and citizen engagement
- Plan meeting schedule, locations, dates

1:50 Discussion of Proposed Waste Ban Changes

- Waste Ban Guidance changes C&D Minimum Performance Standard policy and Solid Waste Facility implementation
- Reduced threshold for commercial organic material
- Mattresses
- Textiles

MRI Contact Info

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www.mass.gov/service-details/mattress-recycling